## SEQUENCE LISTING

- <110> TING, ALICE
- <120> GENETICALLY ENCODED FLUORESCENT REPORTERS OF KINASE, METHYLTRANSFERASE, AND ACETYL-TRANSFERASE ACTIVITIES
- <130> M00656.70097.US
- <140> NOT YET ASSIGNED
- <141> 2003-08-05
- <150> US 60/425,578
- <151> 2002-11-12
- <160> 22
- <170> PatentIn version 3.2
- <210> 1
- <211> 40
- <212> PRT
- <213> Homo sapiens
- <400> 1
- Ala Arg Thr Lys Gln Thr Ala Arg Lys Ser Thr Gly Gly Lys Ala Pro 10
- Arg Lys Gln Leu Ala Thr Lys Ala Ala Arg Lys Ser Ala Pro Ala Thr
- Gly Gly Val Lys Lys Pro His Arg
- <210> 2
- <211> 30
- <212> PRT
- <213> Homo sapiens
- <400> 2
- Ser Gly Arg Gly Lys Gly Lys Gly Leu Gly Lys Gly Gly Ala Lys
- Arg His Arg Lys Val Leu Arg Asp Asn Ile Gln Gly Ile Thr
- <210> 3

- <211> 109 <212> PRT <213> Saccharomyces cerevisiae
- Arg Gly Pro His Asp Ala Ala Ile Gln Asn Ile Leu Thr Glu Leu Gln
- Asn His Ala Ala Ala Trp Pro Phe Leu Gln Pro Val Asn Lys Glu Glu
- Val Pro Asp Tyr Tyr Asp Phe Ile Lys Glu Pro Met Asp Leu Ser Thr 40 45

Met Glu Ile Lys Leu Glu Asn Lys Tyr Gln Lys Met Glu Asp Phe Ile 50 55 60

Tyr Asp Ala Arg Leu Val Phe Asn Asn Cys Arg Met Tyr Asn Gly Glu 65 70 75 80

Asn Thr Ser Tyr Tyr Lys Tyr Ala Asn Arg Leu Glu Lys Phe Phe Asn 85 90 95

Asn Lys Val Lys Glu Ile Pro Glu Tyr Ser Leu Ile Asp 100 105

<210> 4

<211> 1908

<212> DNA

<213> Saccharomyces cerevisiae

<400> 4

aagcttgcgg ccgccaccat ggtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc 60 atcctggtcg agctggacgg cgacgtaaac ggccacaggt tcagcgtgtc cggcgagggc 120 180 gagggcgatg ccacctacgg caagctgacc ctgaagttca tctgcaccac cggcaagctg 240 cccgtgccct ggcccaccct cgtgaccacc ctgacctggg gcgtgcagtg cttcagccgc 300 taccccqacc acatqaaqca qcacqacttc ttcaaqtccg ccatqcccga aggctacgtc 360 caggagegta ccatettett caaggaegae ggeaactaea agaeeegege egaggtgaag ttcqaqqqcg acaccctggt gaaccgcatc gagctgaagg gcatcgactt caaggaggac 420 480 qqcaacatcc tqqqqcacaa qctqqaqtac aactacatca gccacaacgt ctatatcacc qccqacaaqc aqaaqaacgg catcaaggcc cacttcaaga tccgccacaa catcgaggac 540 600 ggcagcgtgc agctcgccga ccactaccag cagaacaccc ccatcggcga cggccccgtg 660 ctqctqcccq acaaccacta cctgagcacc cagtccgccc tgagcaaaga ccccaacgag aagcqcqatc acatgqtcct gctggagttc gtgaccgccg cccgcatgca taagcgtggt 720 780 ccacacqatq caqcaataca gaatatactc acagagctac aaaatcatgc agcagcttgg 840 cccttcttac aacccgttaa taaagaggag gtccccgact attatgattt tatcaaagag ccaatggact tgagcaccat ggaaataaaa ttagagagca acaaatatca gaagatggaa 900 960 gacttcatat atgatgccag attggtgttt aacaattgcc gaatgtacaa tggcgagaat acgtcgtatt acaagtatgc taataggcta gagaaattct tcaataataa agtaaaagaa 1020 1080 atacctgaat attctcacct tattgatggg tctacatctg gatctgggaa gccgggttct ggtgagggtt cttctggtcg cggcaaaggc ggtaaaggtt tgggtaaggg aggtgccaag 1140 1200 cqtcaccqaa aagtgctgcg ggataacatc caaggcatca ccgagctcat ggtgagcaag 1260 qqcqaqqaqc tqttcaccqq qqtqqtqccc atcctqqtcq agctggacgg cgacgtaaac ggccacaagt tcagcgtgtc cggcgagggc gagggcgatg ccacctacgg caagctgacc 1320

ctgaagttca	tctgcaccac	cggcaagctg	cccgtgccct	ggcccaccct	cgtgaccacc	1380
ttcggctacg	gcctgatgtg	cttcgcccgc	taccccgacc	acatgaagca	gcacgacttc	1440
ttcaagtccg	ccatgcccga	aggctacgtc	caggagcgca	ccatcttctt	caaggacgac	1500
ggcaactaca	agacccgcgc	cgaggtgaag	ttcgagggcg	acaccctggt	gaaccgcatc	1560
gagctgaagg	gcatcgactt	caaggaggac	ggcaacatcc	tggggcacaa	gctggagtac	1620
aactacaaca	gccacaacgt	ctatatcatg	gccgacaagc	agaagaacgg	catcaaggtg	1680
aacttcaaga	tccgccacaa	catcgaggac	ggcagcgtgc	agctcgccga	ccactaccag	1740
cagaacaccc	ccatcggcga	cggccccgtg	ctgctgcccg	acaaccacta	cctgagctac	1800
cagtccgccc	tgagcaaaga	ccccaacgag	aagcgcgatc	acatggtcct	gctggagttc	1860
gtgaccgccg	ccgggatcac	tctcggcatg	gacgagctgt	acaagtaa		1908

<210> 5

<211> 635

<212> PRT

<213> Saccharomyces cerevisiae

<400> 5

Lys Leu Ala Ala Thr Met Val Ser Lys Gly Glu Glu Leu Phe Thr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His 20 25 30

Arg Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys 35 40 45

Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp 50 60

Pro Thr Leu Val Thr Thr Leu Thr Trp Gly Val Gln Cys Phe Ser Arg 65 70 75 80

Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro 85 90 95

Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn 100 105 110

Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn 115 120 125

Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu 130 135 140

Gly His Lys Leu Glu Tyr Asn Tyr Ile Ser His Asn Val Tyr Ile Thr 145 150 155

Ala Asp Lys Gln Lys Asn Gly Ile Lys Ala His Phe Lys Ile Arg His 165 170 175

Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn 180 185 190

Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu 200 Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His 215 Met Val Leu Leu Glu Phe Val Thr Ala Ala Arg Met His Lys Arg Gly Pro His Asp Ala Ala Ile Gln Asn Ile Leu Thr Glu Leu Gln Asn His 250 Ala Ala Ala Trp Pro Phe Leu Gln Pro Val Asn Lys Glu Glu Val Pro Asp Tyr Tyr Asp Phe Ile Lys Glu Pro Met Asp Leu Ser Thr Met Glu Ile Lys Leu Glu Ser Asn Lys Tyr Gln Lys Met Glu Asp Phe Ile Tyr Asp Ala Arg Leu Val Phe Asn Asn Cys Arg Met Tyr Asn Gly Glu Asn Thr Ser Tyr Tyr Lys Tyr Ala Asn Arg Leu Glu Lys Phe Phe Asn Asn Lys Val Lys Glu Ile Pro Glu Tyr Ser His Leu Ile Asp Gly Ser Thr 340 345 Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Ser Gly Arg Gly Lys Gly Gly Lys Gly Leu Gly Lys Gly Gly Ala Lys Arg His Arg Lys Val Leu Arg Asp Asn Ile Gln Gly Ile Thr Glu Leu Met Val Ser Lys 390 395 Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe Gly Tyr Gly Leu Met Cys Phe Ala Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe 490 Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys

520

515

Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met Asn Ser Stop Asn Val Tyr Ile Met Asn Asp Lys Gln Lys Asn Gly Ile Lys Val Ser Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu Arg Ash Asn Asp Ile Glu Asp Gly Ser Val Gln Leu Arg Ash Asp Asp Pro Asp Asp His Tyr Gln Asn Thr Pro Ser Gly Asp Gly Pro Ser Lys Asp Pro Asp Ser Asp Arg Asp His Asp His Met Val Leu Leu Glu Phe Geo Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys Geo Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys Geo

<210> 6

<211> 2412

<212> DNA

<213> Drosophila melanogaster

<400> 6 aagcttgcgg ccgccaccat ggtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc 60 atcctggtcg agctggacgg cgacgtaaac ggccacaggt tcagcgtgtc cggcgagggc 120 gagggcgatg ccacctacgg caagctgacc ctgaagttca tctgcaccac cggcaagctg 180 cccgtgccct ggcccacct cgtgaccacc ctgacctggg gcgtgcagtg cttcagccgc 240 taccccgacc acatgaagca gcacgacttc ttcaagtccg ccatgcccga aggctacgtc 300 caggagcgta ccatcttctt caaggacgac ggcaactaca agacccgcgc cgaggtgaag 360 ttcgagggcg acaccctggt gaaccgcatc gagctgaagg gcatcgactt caaggaggac 420 ggcaacatcc tggggcacaa gctggagtac aactacatca gccacaacgt ctatatcacc 480 gccgacaagc agaagaacgg catcaaggcc cacttcaaga tccgccacaa catcgaggac 540 ggcagcgtgc agctcgccga ccactaccag cagaacaccc ccatcggcga cggccccqtq 600 ctgctgcccg acaaccacta cctgagcacc cagtccgccc tgagcaaaqa ccccaacqaq 660 aagegegate acatggteet getggagtte gtgacegeeg eeegcatgea tggaaceaet 720 gttcactgtg actatttgaa tagacctcat aagtccatcc accggcgccg cacagaccct 780 atggtgacgc tgtcgtccat cttggagtct atcatcaatg acatgagaga tcttccaaat 840 acataccett tecacaetee agteaatgea aaggttgtaa aggaetaeta caaaateate 900 actoggocaa tggacctaca aacactoogo gaaaacgtgo gtaaacgcot ctacccatot 960

cgggaagagt tcagagagca tctggagcta attgtgaaaa atagtgcaac ctacaatggg

1020

ccaaaacact	cattgactca	gatctctcaa	tccatgctgg	atctctgtga	tgaaaaactc	1080
aaagagaaag	aagacaaatt	agctcgctta	gagaaagcta	tcaacccctt	gctggatgat	1140
gatgaccaag	tggcgttttc	tttcattctg	gacaacattg	tcacccagaa	aatgatggca	1200
gttccagatt	cttggccatt	tcatcaccca	gttaataaga	aatttgttcc	agattattac	1260
aaagtgattg	tcaatccaat	ggatttagag	accatacgta	agaacatctc	caagcacaag	1320
tatcagagtc	gggagagctt	tctggatgat	gtaaacctta	ttctggccaa	cagtgttaag	1380
tataatggac	ctgagagtca	gtatactaag	actgcccagg	agattgtgaa	cgtctgttac	1440
cagacattga	ctgagtatga	tgaacatttg	actcaacttg	agaaggatat	ttgtactgct	1500
aaagaagcag	ctttggagga	agcagaatta	gaaagcctgg	acccaatgac	cgggtctaca	1560
tctggatctg	ggaagccggg	ttctggtgag	ggttcttctg	gtcgcggcaa	aggcggtaaa	1620
ggtttgggta	agggaggtgc	caagcgtcac	cgaaaagtgc	tgcgggataa	catccaaggc	1680
atcaccgagc	tcatggtgag	caagggcgag	gagctgttca	ccggggtggt	gcccatcctg	1740
gtcgagctgg	acggcgacgt	aaacggccac	aagttcagcg	tgtccggcga	gggcgagggc	1800
gatgccacct	acggcaagct	gaccctgaag	ttcatctgca	ccaccggcaa	gctgcccgtg	1860
ccctggccca	ccctcgtgac	caccttcggc	tacggcctga	tgtgcttcgc	ccgctacccc	1920
gaccacatga	agcagcacga	cttcttcaag	teegecatge	ccgaaggcta	cgtccaggag	1980
cgcaccatct	tcttcaagga	cgacggcaac	tacaagaccc	gcgccgaggt	gaagttcgag	2040
ggcgacaccc	tggtgaaccg	catcgagctg	aagggcatcg	acttcaagga	ggacggcaac	2100
atcctggggc	acaagctgga	gtacaactac	aacagccaca	acgtctatat	catggccgac	2160
aagcagaaga	acggcatcaa	ggtgaacttc	aagatccgcc	acaacatcga	ggacggcagc	2220
gtgcagctcg	ccgaccacta	ccagcagaac	acccccatcg	gcgacggccc	cgtgctgctg	2280
cccgacaacc	actacctgag	ctaccagtcc	gccctgagca	aagaccccaa	cgagaagcgc	2340
gatcacatgg	tcctgctgga	gttcgtgacc	gccgccggga	tcactctcgg	catggacgag	2400
ctgtacaagt	aa					2412

<sup>&</sup>lt;210> 7 <211> 803 <212> PRT <213> Drosophila melanogaster

<sup>&</sup>lt;400> 7

Lys Leu Ala Ala Ala Thr Met Val Ser Lys Gly Glu Glu Leu Phe Thr 1 5 10 15

Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His

Arg Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys 35 40 45

Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp 50 55 60

Pro Thr Leu Val Thr Thr Leu Thr Trp Gly Val Gln Cys Phe Ser Arg 70 75 80

Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro 85 90 95

Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn 100 105 110

Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn 115 120 125

Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu 130 135 140

Gly His Lys Leu Glu Tyr Asn Tyr Ile Ser His Asn Val Tyr Ile Thr 145 150 155 160

Ala Asp Lys Gln Lys Asn Gly Ile Lys Ala His Phe Lys Ile Arg His
165 170 175

Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn 180 185 190

Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu 195 200 205

Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His 210 215 220

Met Val Leu Glu Phe Val Thr Ala Ala Arg Met His Gly Thr Thr 225 230 235 240

Val His Cys Asp Tyr Leu Asn Arg Pro His Lys Ser Ile His Arg Arg 245 250 255

Arg Thr Asp Pro Met Val Thr Leu Ser Ser Ile Leu Glu Ser Ile Ile 260 . 265 270

Asn Asp Met Arg Asp Leu Pro Asn Thr Tyr Pro Phe His Thr Pro Val 275 280 285

Asn Ala Lys Val Val Lys Asp Tyr Tyr Lys Ile Ile Thr Arg Pro Met 290 295 300

Asp Leu Gln Thr Leu Arg Glu Asn Val Arg Lys Arg Leu Tyr Pro Ser 305 310 315 320

Arg Glu Glu Phe Arg Glu His Leu Glu Leu Ile Val Lys Asn Ser Ala 325 330 335

Thr Tyr Asn Gly Pro Lys His Ser Leu Thr Gln Ile Ser Gln Ser Met 340 345 350

Leu Asp Leu Cys Asp Glu Lys Leu Lys Glu Lys Glu Asp Lys Leu Ala 355 360 365

Arg	Leu 370	Glu	Lys	Ala	Ile	Asn 375	Pro	Leu	Leu	Asp	Asp 380	Asp	Asp	Gln	Val
Ala 385	Phe	Ser	Phe	Ile	Leu 390	Asp	Asn	Ile	Val	Thr 395	Gln	Lys	Met	Met	Ala 400
Val	Pro	Asp	Ser	Trp 405	Pro	Phe	His	His	Pro 410	Val	Asn	Lys	Lys	Phe 415	Val
Pro	Asp	Tyr	Tyr 420	Lys	Val	Ile	Val	Asn 425	Pro	Met	Asp	Leu	Glu 430	Thr	Ile
Arg	Lys	Asn 435	Ile	Ser	Lys	His	Lys 440	Tyr	Gln	Ser	Arg	Glu 445	Ser	Phe	Leu
Asp	Asp 450	Val	Asn	Leu	Ile	Leu 455	Ala	Asn	Ser	Val	Lys 460	Tyr	Asn	Gly	Pro
Glu 465	Ser	Gln	Tyr	Thr	Lys 470	Thr	Ala	Gln	Glu	Ile 475	Val	Asn	Val	Cys	Tyr 480
Gln	Thr	Leu	Thr	Glu 485	Tyr	Asp	Glu	His	Leu 490	Thr	Gln	Leu	Glu	Lys 495	Asp
Ile	Cys	Thr	Ala 500	Lys	Glu	Ala	Ala	Leu 505	Glu	Glu	Ala	Glu	Leu 510	Glu	Ser
Leu	Asp	Pro 515	Met	Thr	Gly	Ser	Thr 520	Ser	Gly	Ser	Gly	Lys 525	Pro	Gly	Ser
Gly	Glu 530	Gly	Ser	Ser	Gly	Arg 535	Gly	Lys	Gly	Gly	Lys 540	Gly	Leu	Gly	Lys
Gly 545	Gly	Ala	Lys	Arg	His 550	Arg	Lys	Val	Leu	Arg 555	Asp	Asn	Ile	Gln	Gly 560
Ile	Thr	G1u	Leu	Met 565	Val	Ser	Lys	Gly	Glu 570	Glu	Leu	Phe	Thr	Gly 575	Val
Val	Pro	Ile	Leu 580	Val	Glu	Leu	Asp	Gly 585	Asp	Val	Asn	Gly	His 590	Lys	Phe
Ser	Val	Ser 595	Gly	Glu	Gly	Glu	Gly 600	Asp	Ala	Thr	Tyr	Gly 605	Lys	Leu	Thr
Leu	Lys 610	Phe	Ile	Cys	Thr	Thr 615	Gly	Lys	Leu	Pro	Val 620	Pro	Trp	Pro	Thr
Leu 625	Val	Thr	Thr	Phe	Gly 630	Tyr	Gly	Leu	Met	Cys 635	Phe	Ala	Arg	Tyr	Pro 640
Asp	His	Met	Lys	Gln 645	His	Asp	Phe	Phe	Lys 650	Ser	Ala	Met	Pro	Glu 655	Gly
Tyr	Val	Gln	Glu 660	Arg	Thr	Ile	Phe	Phe 665	Lys	Asp	Asp	Gly	Asn 670	Tyr	Lys
Thr	Arg	Ala 675	Glu	Val	Lys	Phe	Glu 680	Gly	Asp	Thr	Leu	Val 685	Asn	Arg	Ile
Glu	Leu 690	Lys	Gly	Ile	Asp	Phe 695		Glu	Asp	Gly	Asn 700		Leu	Gly	His

```
Lys Leu Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp
Lys Gln Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile
                725
                                   730
Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro
                               745
Ile Gly Asp Gly Pro Val Leu Pro Asp Asn His Tyr Leu Ser Tyr
Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val
Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu
Leu Tyr Lys
<210> 8
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 8
Gly Gly Gly Ser Gly Gly Gly Ser
<210> 9
<211> 12
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 9
Gly Lys Ser Ser Gly Ser Glu Ser Lys Ser
                5
<210> 10
<211> 14
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
```

```
<210> 11
<211> 18
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 11
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr
Lys Gly
<210> 12
<211>
      14
<212>
      PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 12
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
              5
<210> 13
<211> 18
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
                                   10
Lys Gly
<210> 14
<211> 14
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 14
Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
```

```
<210> 15
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 15
Ala Gly Gly Thr Gly Gly Ser Leu
<210> 16
<211> 34
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 16
Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
Gly Ala Gly Gly Ala Gly Ser Thr Ser Gly Ser Gly Lys Pro Ser Gly
Glu Gly
<210> 17
<211> 15
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 17
Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
<210> 18
<211> 30
<212> PRT
<213> Homo sapiens
<400> 18
Ala Arg Thr Lys Gln Thr Ala Arg Lys Ser Thr Gly Gly Lys Ala Pro
Arg Lys Gln Leu Ala Thr Lys Ala Ala Arg Lys Ser Ala Pro
```

```
<210> 19
<211> 15
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 19
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
<210> 20
<211>. 20
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 20
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly
Gly Gly Gly Ser
          20
<210>
     21
<211>
      25
<212>
     PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 21
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
                                 10
Gly Gly Gly Ser Gly Gly Gly Ser
          20
      22
<210>
<211>
     30
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic polypeptide
<400> 22
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Ser
```